

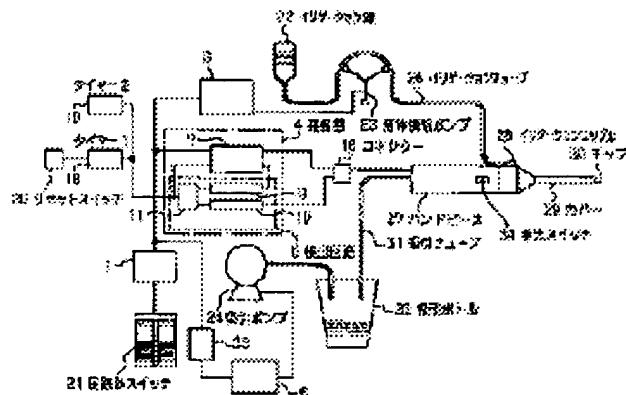
ULTRASONIC SURGICAL OPERATION DEVICE

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- **international:** A61B17/36; A61B1/00; A61B17/22; A61F9/007
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Abstract of JP8164145

PURPOSE: To integrate and display only the time when a hand piece actually oscillates and performs ultrasonic vibration, to correctly recognize the history of a device, to perform appropriate maintenance and to integrate and display oscillation time of each time corresponding to surgical operation contents as well.

CONSTITUTION: This surgical operation device is composed of the hand piece 27, a liquid supply pump 23, a suction pump 24, an oscillator 4 and a control part. Then, the control part is composed of a liquid supply pump control circuit 3, a suction pump control circuit 5 and an actuating circuit 1 and the actuating circuit is connected to the liquid supply pump control circuit, the suction pump control circuit and the oscillator by an actuating signal line 2. Further, the hand piece is connected to the oscillator through a connector 16 by an ultrasonic wave output signal line 8 and a discrimination detection signal line 12, timers 1 and 18 and the timers 2 and 19 are connected by an oscillation detection signal line 17 and a reset switch 20 is installed to the timer 1.



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